Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in this application.

1. (Currently amended) A catheter for delivering a vascular prosthesis within a body vessel, the vascular prosthesis having a distal section and a proximal section, the catheter comprising: an inner member comprising:

an elongated member having distal and proximal ends; and

a <u>radially expandable</u> balloon attached to the elongated member adjacent to the distal end, the balloon having a radially expandable portionlength;

a sheath slidably disposed over at least a portion of the inner member to restrain the vascular prosthesis against the elongated member during transluminal insertion of the catheter;

means for engaging the distal section of the vascular prosthesis to prevent axial translation of the vascular prosthesis during proximal retraction of the sheath; and

the means for engaging affixed to the inner member at a position proximal of the <u>whole</u> entire all of said radially expandable portion length of the balloon.

- 2. (Original) The catheter of claim 1, wherein the means for engaging comprises a polymer layer that has been treated to enhance frictional engagement with the distal section of the vascular prosthesis.
- 3. (Currently amended) The catheter of claim 2, wherein:

 the radially expandable balloon comprises a non-radially expandable proximal shoulder; and the proximal shoulder comprises the polymer layer-comprises a proximal shoulder of the balloon.
- 4. (Original) The catheter of claim 1, wherein the means for engaging comprises raised features that interengage the distal section of the vascular prosthesis.
 - 5. (Currently amended) The catheter of claim 4, wherein: the radially expandable balloon comprises a non-radially expandable proximal shoulder; and the raised features are formed on [[a]]the proximal shoulder of the balloon.

- 6. (Currently amended) The catheter of elaim 5 claim 4, wherein the raised features are chosen from the group consisting of ribs, bumps, ridges, grooves, notches and selectively inflatable sections.
- 7. (Original) The catheter of claim 1, wherein the balloon is configured to engage a wall of the body vessel during deployment of the distal section of the vascular prosthesis to prevent axial displacement of the catheter relative to the body vessel.
- 8. (Original) The catheter of claim 1, wherein the balloon is configured to perform angioplasty of a stenosis disposed within the body vessel.
- 9. (Original) The catheter of claim 1, further comprising at least one radio-opaque marker disposed on the elongated member and a radio-opaque marker disposed adjacent to a distal end of the sheath.
- 10. (Previously presented) The catheter of claim 1, wherein the elongated member further comprises an atraumatic tip disposed on the distal end and a lumen extending between the distal and proximal ends, the lumen dimensioned to slidably receive a guide wire.
- 11. (Currently amended) A catheter for delivering a vascular prosthesis within a body vessel, the vascular prosthesis having a distal section and a proximal section, the catheter comprising: an inner member comprising:
 - an elongated member having distal and proximal ends; and
 - a balloon attached to the elongated member adjacent to the distal end;
- a sheath slidably disposed over at least a portion of the inner member to restrain the vascular prosthesis against the elongated member during transluminal insertion of the catheter;
- a non-radially expandable polymer layer affixed directly to the elongated member at a position proximal of the balloon, the polymer layer configured to engage the distal section of the vascular prosthesis and treated to enhance the grip of the polymer layer [[and]]to the vascular prosthesis to help prevent axial translation of the vascular prosthesis during proximal retraction of the sheath.

- 12. (Previously presented) The catheter of claim 11, wherein the balloon comprises a proximal shoulder, the proximal shoulder comprising the polymer layer.
- 13. (Original) The catheter of claim 11, wherein the polymer layer defines raised features that interengage the distal section of the vascular prosthesis.
- 14. (Original) The catheter of claim 11, wherein the balloon is configured to engage a wall of the body vessel during deployment of the distal section of the vascular prosthesis to prevent axial displacement of the catheter relative to the body vessel.
- 15. (Original) The catheter of claim 11, wherein the balloon is configured to perform angioplasty of a stenosis disposed within the body vessel.
- 16. (Original) The catheter of claim 11, further comprising at least one radio-opaque marker disposed on the elongated member and a radio-opaque marker disposed adjacent to a distal end of the sheath.

17-20. (Canceled)

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